AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An authentication method for network security, comprising the following steps:

configuring a Media Gateway (MG) with an authentication key and setting a security data package on a network protocol, by a Media Gateway Controller (MGC);

during a security authentication, sending~~,~~ by the MGC~~,~~ a security authentication request ~~data~~ containing a security authentication parameter to the MG using the data package;

~~receiving by the MGC a calculation result obtained by~~ performing an encryption calculation ~~on the request data using~~ according to the security authentication parameter and the authentication key and reporting a calculation result to the MGC, by the MG; and

determining by the MGC whether the MG is legal ~~according to the calculation result~~by comparing the calculation result with a result calculated by the MGC.

2. (Original) The authentication method for network security according to claim 1, wherein said network protocol is Media Gateway Control Protocol (MGCP).

3. (Original) The authentication method for network security according to claim 1, wherein said network protocol is H248 protocol.

4. (Currently Amended) The authentication method for network security according to claim 1, wherein said data package comprises a security authentication request signal and a security authentication completion event, said security authentication request signal ~~comprising~~ comprises a security authentication parameter, and said security authentication completion event ~~comprising~~ comprises a security authentication result parameter; and wherein the step of reporting a calculation result includes reporting by the calculation result to the MGC via a security authentication completion event in a data package.

5. (Currently Amended) The authentication method for network security according to claim 4, wherein the security authentication parameter is a random number ~~step of sending security authentication request data from the MGC to the MG using the data package further comprises:~~

~~sending the security authentication request signal in the data package to the MG.~~.

6. (Cancelled)

7. (New) An authentication method applicable in a Next Generation Network (NGN) for network security, comprising:

configuring a Media Gateway (MG) with an authentication key and setting a security data package on a network protocol, by a Media Gateway Controller (MGC);

during a security authentication, sending by the MGC a security authentication request containing a security authentication parameter to the MG using the data package;

performing an encryption calculation according to the security authentication parameter and the authentication key and reporting a calculation result to the MGC, by the MG; and

determining by the MGC whether the MG is legal by comparing the calculation result with a result calculated by the MGC.

8. (New) The authentication method according to claim 7, wherein said data package comprises a security authentication request signal and a security authentication completion event, said security authentication request signal comprises a security authentication parameter, and said security authentication completion event comprises a security authentication result parameter; and wherein said reporting a calculation result includes reporting by the MG the calculation result to the MGC via a security authentication completion event in a data package.

9. (New) A system applicable in a Next Generation Network (NGN) for network security, comprising a Media Gateway (MG) and a Media Gateway Controller (MGC), wherein:

the MGC configures the MG with an authentication key and sets a security data package on a network protocol, and sends a security authentication request containing a security authentication parameter to the MG using the data package during a security authentication;

the MG performs an encryption calculation according to the security authentication parameter and the authentication key and reports a calculation result to the MGC; and,

the MGC further determines whether the MG is legal by comparing the calculation result with a result calculated by the MGC.

10. (New) The system according to claim 9, wherein said data package comprises a security authentication request signal and a security authentication completion event, said security authentication request signal comprising a security authentication parameter, and said security authentication completion event comprising a security authentication result parameter; and wherein the MG reports the calculation result to the MGC via a security authentication completion event in a data package.